

**CITY OF CARLSBAD
CLASS SPECIFICATION**

JOB TITLE: **CROSS-CONNECTION CONTROL TECHNICIAN**

DEPARTMENT: **UTILITIES**

BASIC FUNCTION:

Under general supervision, to enforce the city cross-connection control programs including the Recycled Water Program and the Backflow Prevention Program.

DISTINGUISHING CHARACTERISTICS:

The Cross-Connection Control Technician is distinguished by the specialized knowledge of the cross-connection control program and level of responsibility and independence of actions taken in enforcing these programs.

KEY RESPONSIBILITIES:

Conduct inspections of private recycled water systems, working with the Use Site Supervisor to resolve any non-compliance issues;

Design, coordinate, and conduct cross-connection tests at a wide variety of recycled water use sites in conjunction with the Health Department and Use Site Supervisor;

Perform plan checks on irrigation plans.

Read irrigation and improvement plans;

Perform inspections of irrigation system installations for compliance with approved plans, specifications, materials, and standards;

Respond to inquiries from contractors, developers, engineers, landscape architects and the general public concerning the city's rules and regulations regarding the cross-connection control program, including special requirements for recycled water use;

Maintain liaison with regulatory and other water agencies related to the cross-connection control program;

Represents the city at meetings; works closely with the County Health department;

Identify businesses where backflow prevention assemblies are necessary, notify and advise customers where and what type of assemblies need to be installed; follow-up to ensure that the appropriate assemblies have been installed;

Investigate backflow prevention assemblies that are in need of repair or replacement and notify customers;

Test, install, and maintain backflow prevention assemblies;

Maintain computerized records and files of backflow prevention assembly locations, inspections, test results and corrections;

Install, repair and maintain all city facility backflow prevention assemblies;

Prepare correspondence and maintain appropriate records, files, and documentation;

May act as Sr. Cross-Connection Control Technician in his/her absence; and

Perform other related work as assigned.

QUALIFICATIONS:

Knowledge of:

Possess in-depth knowledge of cross-connection control, water distribution, and hydraulics;

State and city regulations related to the cross-connection control program and related use of recycled water systems;

Have a general understanding of Microsoft Word, Excel, and Access;

Specific tools, equipment, materials and procedures used in backflow testing, maintenance, repair, and installation;

City streets and location of backflow prevention assemblies;

Basic plumbing and piping systems in order to perform cross-connection surveys;

Quality control methods and techniques;

Safe work practices and regulations; and

Basic arithmetic.

Ability to:

Enforce city cross-connection control regulations and rules through investigation and identification of non-compliance and seek resolutions in a tactful manner;

- Exercise initiative and judgment relative to enforcement activities;
- Compose correspondence using proper grammar and spelling;
- Conduct backflow tests, installations, and repairs;
- Effectively communicate with people from a wide variety of socio-economic backgrounds;
- Deal tactfully and remain courteous and calm in tense and/or hostile situations;
- Perform mechanical maintenance and repair tasks;
- Perform basic arithmetic calculations accurately;
- Operate a variety of hand and power tools and other types of mechanical equipment;
- Follow and enforce safety rules and regulations;
- Carry out assigned duties in a safe and efficient manner;
- Maintain computerized records and prepare reports accurately and completely;
- Understand and follow written and oral instructions; and
- Work independently and efficiently to carry out assignments.

EXPERIENCE AND EDUCATION:

Any combination equivalent to experience and education that could likely provide the required knowledge and abilities is qualifying. A typical way to obtain the knowledge and abilities would be as follows:

Three years of progressively responsible water field experience and coursework in Water Distribution, Hydraulics and Cross-Connection Control.

SPECIAL REQUIREMENTS:

Possession of a valid California Driver's License (Class C). Certification by the American Water Works Association (AWWA) and/or American Backflow Prevention Association (ABPA) as a Backflow Prevention Assembly Tester and Cross-Connection Control Specialist. Certification by the State of California Dept. of Public Health as a Water Distribution Operator II.

PHYSICAL REQUIREMENT AND ENVIRONMENT:

Extended periods of standing and walking on a variety of terrains to inspect or investigate recycled water use sites or to examine backflow assemblies;

Upper body strength to lift, carry and manipulate backflow prevention assemblies, pressure recorders, and other related equipment;

Willingness to work in confined spaces which may expose employee to hazardous atmospheric conditions, using appropriate safety equipment; and

The majority of work is performed outdoors and through inclement weather as necessary;

Willingness to work overtime hours or respond to emergency calls during unscheduled hours as required; and

During course of employment may be trained in Hazardous Materials related to the response plan for emergency operations.